

BEST AVAILABLE COPY**Amendments to the Claims**

The following claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-21. (canceled)

22. (currently amended) A recombinantly-produced polypeptide comprising SEQ ID NO:2 or ~~SEQ ID NO:4~~.

23. (currently amended) A purified or chemically-synthesized polypeptide comprising SEQ ID NO:2 or ~~SEQ ID NO:4~~.

24. (currently amended) An isolated polypeptide comprising SEQ ID NO:2 or ~~SEQ ID NO:4~~.

25. (currently amended) A Kv4.3 potassium channel produced by expressing from a recombinant vector comprising the nucleotide sequence depicted in SEQ ID NO:1 or ~~SEQ ID NO:3~~, wherein said nucleotide sequence is operatively linked to one or more expression control sequences.

26. (new) A recombinantly-produced polypeptide comprising SEQ ID NO:4.

27. (new) A purified or chemically-synthesized polypeptide comprising SEQ ID NO:4.

28. (new) An isolated polypeptide comprising SEQ ID NO:4.

29. (new) A Kv4.3 potassium channel produced by expressing from a recombinant vector comprising the nucleotide sequence depicted in SEQ ID NO:3, wherein said nucleotide sequence is operatively linked to one or more expression control sequences.

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